

ECE 530 Cloud Computing

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What if Cloud dies?

What If Cloud Dies ?

- The cloud probably has better availability than you could do on your own. However:
- Consider retaining as much in-house capacity as you need to stay alive and muddle through
- Example: hospital or police department, which get electricity from grid for normal operations but keep backup generator for vital functions in case of outage.
- Also: be very careful to maintain ability to access cloud, such as local routers

Ultra-Sensitive Data

- Some core, vital data you just can't trust to anyone else. Example: Fidelity account contents, US Department of Defense submarine locations. Can't use external cloud, but might consider internal cloud appliances, with safeguards.
- These companies often have much larger stores of data with lower security requirements for which cloud could be highly appropriate. Example: Fidelity fund prospecti and reports, US DoD purchases of coffee and underwear.

Legal

- Sometimes law requires that certain data be stored in specific countries or locations (EU).
- Sometimes you want data stored in specific locations to avoid any possible uncertainties in jurisdiction (MS HealthVault in Canada).
- Technology changing faster than law can keep up. More than a little bit tricky. Cloud could hurt (hosting not available in required jurisdiction) or help (quick switch of hosting into newly required jurisdiction).

Availability of Cloud Resources

- How sure are you that your cloud provider will have enough cloud resources available when you want to scale up, particularly in burst situations? (e.g. Weather.com)
- How badly would it hurt your business if you wanted to scale up but couldn't?
- What remedies are available from cloud provider if you cannot scale at the time you want, to the degree that you want? (See service level agreement with provider.)
- Amazon has interesting spot market for computational resources.

ANY QUESTIONS?



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